

# Marine Air Ground Task Force Training Command

## Marine Corps Air Ground Combat Center (MAGTFTC, MCAGCC)



Twentynine Palms, CA.



# Agenda

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- Purpose
- MAGTF-TC Today
- Transformation
- MAGTF-TC Tomorrow
- Initiatives
- Future Scenario



# Purpose

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- **To provide an overview of the strategic vision for the MAGTF Training Command.**
- **Discuss the future Joint Urban Warfare Facility Study and its potential issues and implications.**
- **Discuss the MEB Training Exercise Study and its potential issues and implications**



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# MAGTF-TC

# TODAY



# Training Area Description

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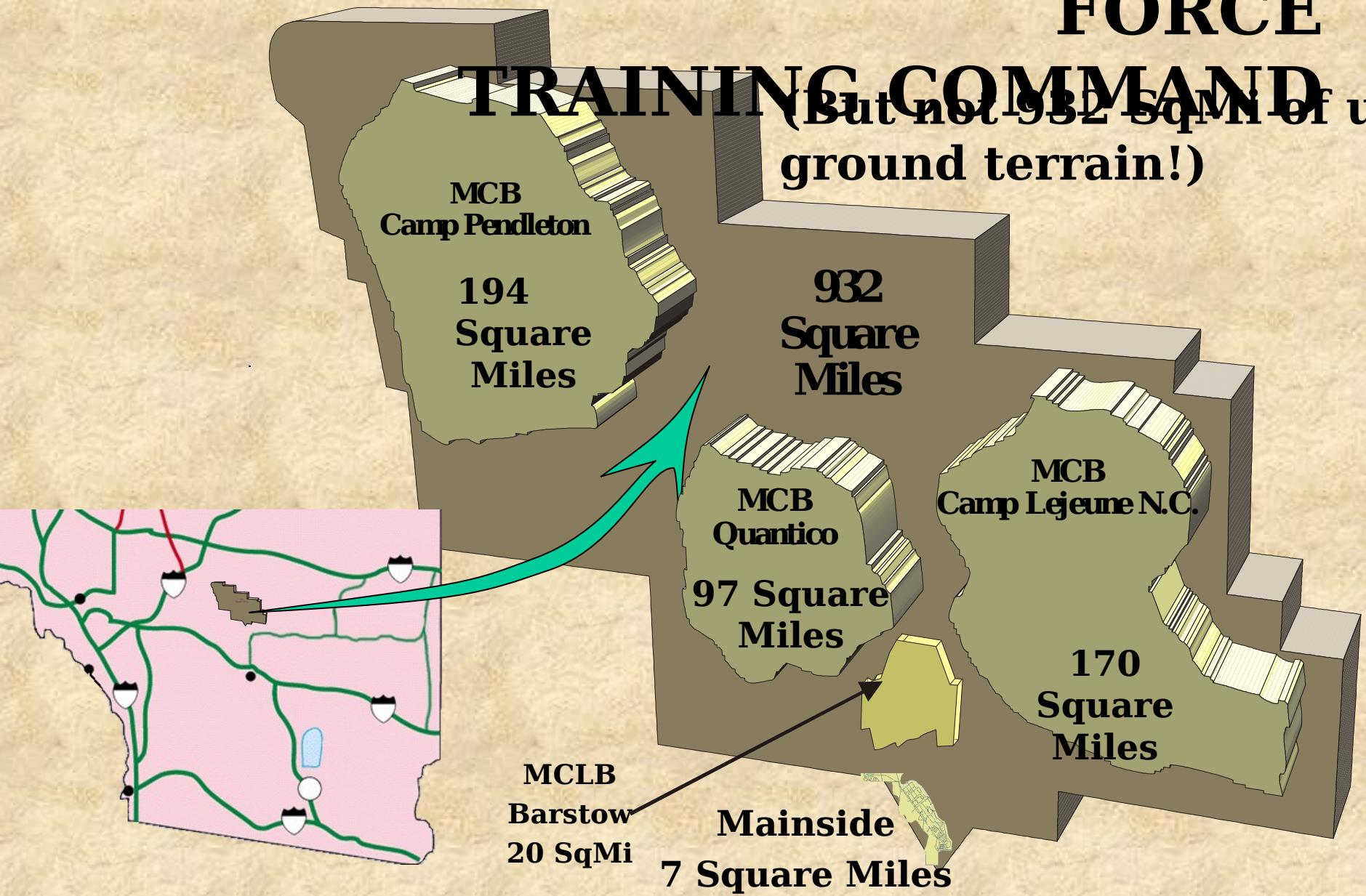
- Twenty-three training areas
- Twenty-seven fixed ranges
- Expeditionary airfield (EAF)
- 400 miles of tactical dirt roads (MSRs)
- 9,000 tons of ordnance annually.

# MARINE AIR GROUND TASK FORCE

## TRAINING COMMAND

But not 932 Sq Mi of us

ground terrain!)





# MAGTF-TC Today

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- **Focused on supporting the CAX program**
  - **MAGTF oriented; GCE focused**
  - **Strong emphasis on teacher/trainer approach**
  - **Limited coaching and eval. of CE, CSS, ACE & Fire Support Elements**
  - **Limited opportunities for dynamic decision making**
- **TTECG not structured** to fully exploit MAGTFTC's potential
- **No links** to other training sites
- **Limited AAR** capability
- **Minimal connectivity** to Joint/Interagency
- **Limited opportunities for shaping operations (Single Battle)**



# Current

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# Mission Statement

- **“MAGTFTC promotes operational readiness through live fire combined arms training and joint level integration for the MAGTF and provides facilities, services, and support, responsive to the needs of tenant commands, Marines, Sailors and their families.”**



# Current Vision

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- **Our Vision...To become a mission centric, state-of-the-art, combat force training base renowned for:**
  - **Responsiveness to emerging expeditionary and combined arms training requirements**
  - **Superior, locality-specific, base and community services**
  - **Workforce skill and innovation in business practices**
  - **Attentive stewardship in community and environmental affairs**



# Combined Arms Training

- **MAGTF Training Command is the premier combined arms training facility in the Marine Corps.**
  - **Home to the Combined Arms Exercise (CAX)**
  - **Full integration of all weapon systems in a fire and movement setting**
  - **Live Fire Promotes Safety and Realism**





# Focus of the CAX Program

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- Train and exercise Marine Air-Ground Task Forces in the tactics, techniques, and procedures for executing live fires in consonance with maneuver
- Specifically, this involves the timely and accurate integration of direct, indirect, air delivered, and non-lethal fires to support the *Commander's Intent at every level*  
*Combined Arms.... Not Desert Warfare!*



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# TRANSFORMATIO N



# Evolving Requirements

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- DOD driving Requirements & Training  
~~Transform~~ National Training Capability (JNTC)
- Support Maintenance Compromised Strategy
- Operationalize EMW
- Build MAGTF skills
- Reinforce Expeditionary Competency
- Enhance MEB/MEF (FWD) Skills
- Meet (and capitalize on) DOD & Joint initiatives  
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# DPG 2004-2009

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## GUIDANCE

- “Comprehensive and realistic combat training is an asymmetric advantage for the U.S. military forces that contributes more to effective combat power than any single new system. As such, it is a key enabler for transformation. To ensure this competitive advantage for U.S. forces well into the future, the Department will develop and implement transformational training concepts and infrastructure as essential elements in preparing U.S. forces to conduct Joint effects-based operations of the future.”
- “USD (P&R) will ensure that DoD Components transition to a transformed training regimen by the end of FY 2005, with the goal of at least 25% of major training exercises being Joint training involving units or personnel from more than one Service.”
- “USD (P&R), working with the military departments and USD (C), will identify specific requirements for and oversight of USJFCOM and Service efforts to establish a Joint National Training Center (JNTC) that supports Joint, interoperable and Service level training.”



# Department of Defense ~~Priorities~~

- 1. Successfully Pursue the Global War on Terrorism
- 2. Strengthen Joint Warfighting Capabilities
- 3. Transform the Joint Force

JNTC

“The centerpiece of our  
training transformation effort  
will be the  
Joint National Training  
Capability.”

Deputy Secretary of Defense

Paul Wolfowitz during testimony before the  
Senate Armed Services Committee 9 April 2002

**Trans**

**efense**

**pRIORITY**

**Source: SECDEF Legislative Priorities Memorandum Dated 24 Sep 03**



# Training Transformation

## (T2)

### Joint National Training Capability:

JNTC will provide a real-world laboratory with the capability to conduct experiments that assess new doctrine, tactics, and procedures using live military forces against professional opposing forces in realistic combat conditions. Lessons learned from JNTC exercises and experiments will be a principal source of insight for generating new operating concepts.



***"Priority 2 --  
Strengthen joint  
warfighting  
capabilities"***



# Four Pillars of “Joint Training”

## 1<sup>st</sup> Training Transformation Major Training Centers

Realistic Combat Training

Opposing Forces

Ground Truth

Feedback

## 2<sup>nd</sup> Training Transformation Joint National Training Capability

### **JOINT CONTEXT - HORIZONTAL / VERTICAL**

- Employs Joint doctrine / TTPs
- Live training with simulation / stimulation
- Mission rehearsal implications
- Realistic information ops and C4ISR
- Potentially deployable / distributable

### **• Multi-dimensional peer adversary-shape our future**

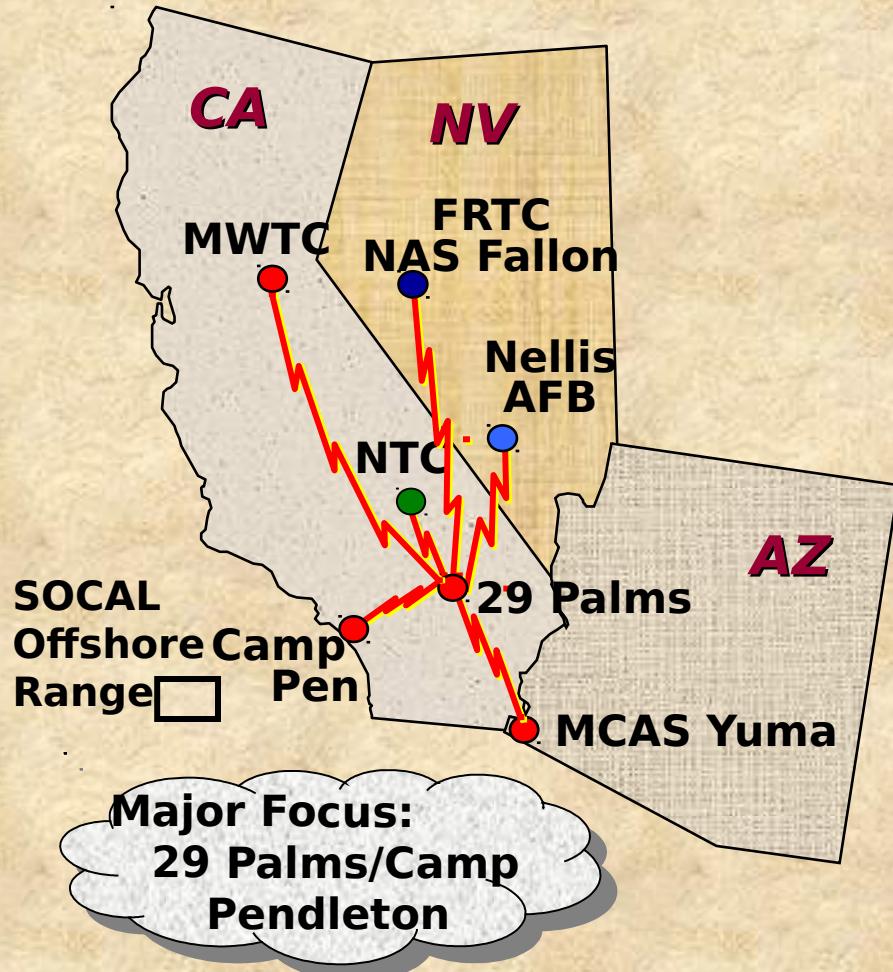
- Asymmetric challenges
- Diverse targets / threats

### **• Integrated range instrumentation-define our future**

- Joint Observer / Trainers
- Certified ranges, accredited events
- Focus on joint performance outcomes
- Ability to assess concepts and doctrine

- Feeds joint lessons learned
- Promotes Joint Training System use

# WEST COAST APPROACH



## Characteristics

- Proximity to other Service's major training centers (NTC, Nellis, Fallon)
- Availability of OPFORs (Coyotes, NTC, Fallon, etc.)
- Direct access to littoral training areas (Camp Pendleton, SOCAL Offshore Range)
- Proximity to major concentrations of forces
- Major exercise control capability already in place
- Some existing



# MAGTF-TC & JNTC

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- Establish a Joint National Training Capability within the MAGTF-TC as a major component of DOD's overall "Training Transformation" Initiative
- Receive JNTC Accreditation through Joint Participation
- Integrate "L-V-C" Training Events
- Develop, Integrate, and Employ:
  - GIS Position Location Indicators (PLI)
  - Live Fire Sensors & Instrumentation
  - Force on Force Sensors & Instrumentation
- Develop Robust Comm Network for Safety/Retrans



# Marine Corps Strategy

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- **Outlines Corps' vision, goals, and aims in development of future combat capabilities**
- **Reinforces primacy of MAGTF as Corps' premier warfighting organization**
  - **MEB orientation**
  - **Expeditionary, combined arms character**
- **Emergent requirement for MAGTF's ability to support Joint/Combined Force commanders**



# Expeditionary Maneuver Warfare

- Translates Marine Corps Strategy 21 vision into operational concepts
  - Subsumes OMFTS & STOM
- Enhances capabilities that reinforce our expeditionary nature
- Improves joint interoperability

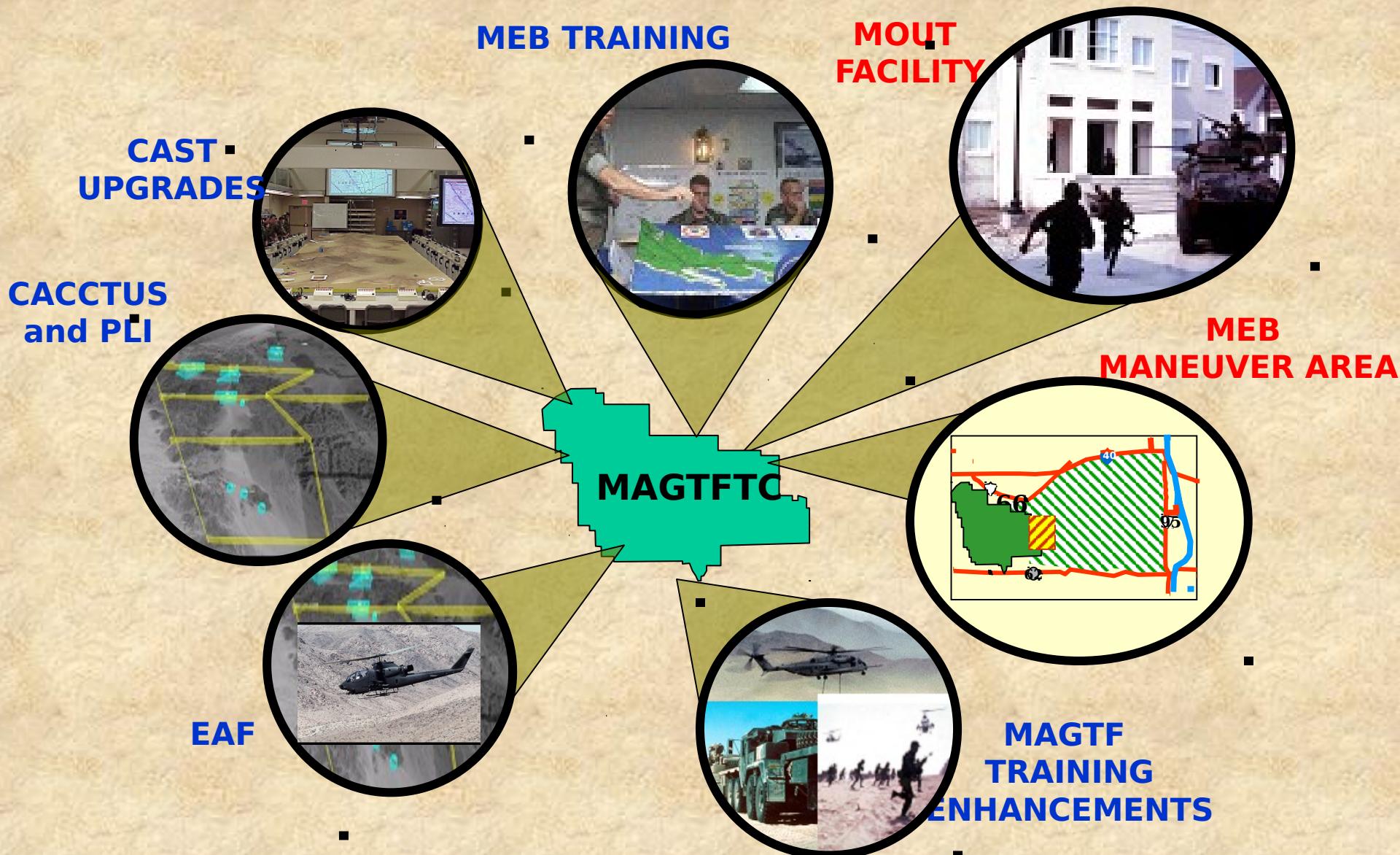


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# MAGTF-TC

# TOMMORROW

# MAGTF TC Vision





# MAGTFTC Vision

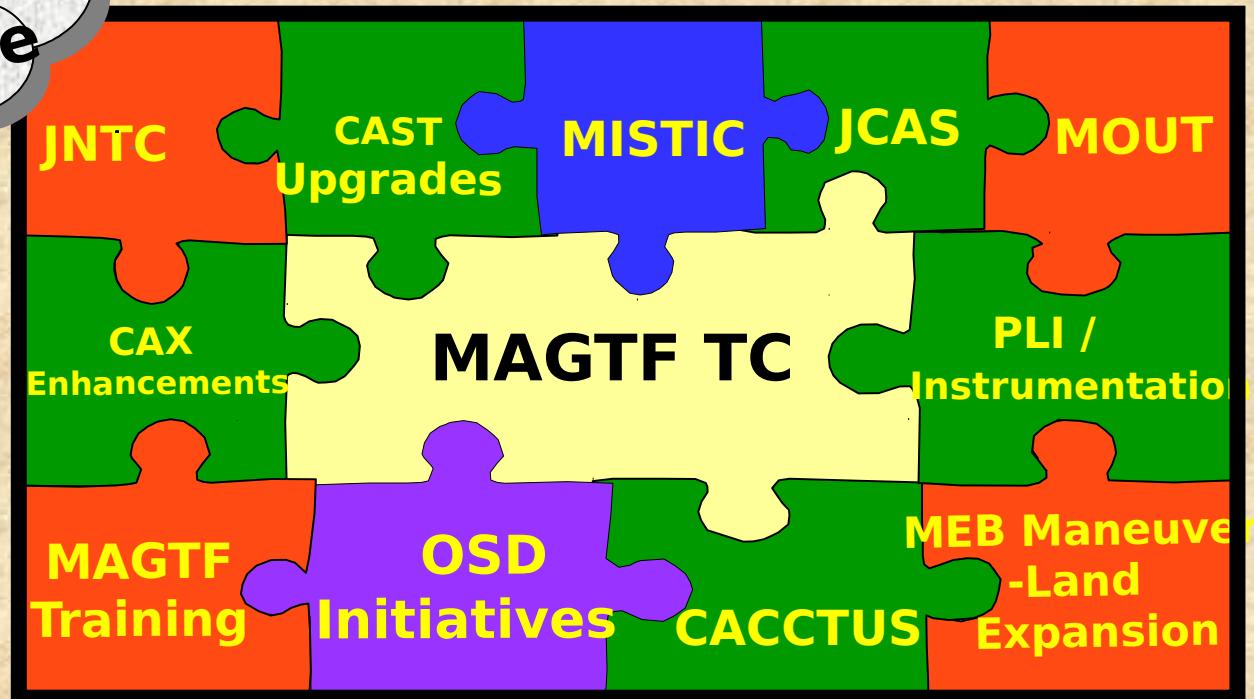
## Training and testing site for Expeditionary Maneuver Warfare capability

- MAGTF training Center Of Excellence - “Train the MEB”
- Corps’ premier training center
- Maintain/Enhance Readiness through Live Fire Training
- Strong link to all facets of T&E (MAWTS, MSTP, MWTC, EWTG, TTECG)
- Enabling Expeditionary Maneuver Warfighting
- Further expand training for all elements of the MAGTF
- Connecting files to training sites in all locations - USMC/JNTC



# The Future of MAGTF Training Command

Time to assemble the puzzle





# Future

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- **The Strategic importance of MAGTF Training Command to Marine combat readiness will increase**
- **Need to Preserve mutually supportive relationships between our Units, Marines, Sailors, Soldiers, the Environment, and our Family Members along with the local communities of which they are a part**



# **Strategic Plan Transformation**

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- Plan must align with HHQ Strategy
- MAGTF-TC Mission and Vision requires realignment



# MAGTF-TC

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## Assumptions

- **Training Readiness for Tomorrow**
  - **Tomorrow's CAX will shape tomorrow's MCAGCC (MEB)**
  - **Live fire will continue to be our principle method of evaluating the effectiveness of a training unit's fire support as well as their management/deconfliction of same**
  - **We will continue to organize as MAGTFs and eventually be capable of training at the MEB level**
  - **Land Expansion/Large Scale Urban Training Facility will occur NLT 2015 in support of large scale MAGTF training**
  - **MEB CAX=7,000 to 9,000 personnel**
  - **TTECG will grow by 50%**
  - **EAP will increase 30%**



# Assumptions (cont)

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- **Base Support Growth**
  - **30% increase in base support personnel**
- **Quality of Life**
  - **25% increase in housing requirements**
- **Training OPTEMPO**
  - **25% of training per year aboard MCAGCC will be joint**
  - **75% of training aboard MCAGCC will continue to be service related**
  - **25% of service related training will be MEB level**



# Assumptions (cont)

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- **Infrastructure**
  - Camp Wilson infrastructure may increase to support a MEB
  - Main-side infrastructure to increase by 25%
  - Required Air-Space will increase with expansion
  - EAF may increase to absorb increase of MEB/Joint level air assets in support of MEB CAX/JNTC events
  - Live-Virtual-Constructive framework will lead to 25% increase in instrumentation/simulation



# **“Vision” Attributes**

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- **The MAGTF-TC expands its outlook by realigning strategic planning and resources on transforming MCAGCC towards incorporating the tenets of EMW:**
  - **Facilitate scalable, live-fire, instrumented, and enhanced MAGTF training up to the MEB level**
  - **Enable joint service, component, and/or unilateral training at both the tactical and operational level across the spectrum of conflict.**
- **Develop training programs and enhancements that will incorporate live-virtual-constructive means, controlled by expert and experienced TTECG by 2015.**



# "Vision" Attributes (cont)

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- **MEB training will encompass all elements of the MAGTF in an expanded MCAGCC maneuver area that has a Large Scale Urban Training facility capability and portrays the complexity of the modern battlefield.**
- **MCAGTF-TC supports MAGTF training by providing modernized infrastructure, facilities, communication network, and support programs that contribute to war fighting and family readiness.**
- **Maintains Environmental Stewardship and Accessibility for Training of the MAGTF**



# **“Vision” Attributes**

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## **(cont)**

- **Current CAX Training program remains as CORE training but will evolve over time.**
- **Provide equipment allowance pools and facilities, ranges, training devices, instrumentation, and training infrastructure to enhance training**
- **Improve installation infrastructure, quarters, barracks and QOL**
- **Provide for the well-being and safety of Marines**
- **Orient and improve on programs for Marines, Sailors, families, and civilian Marines**



# “Vision” Attributes

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## (cont)

- **Operate with a sense of “business” efficiency**
- **Operate and train safely**
- **Foster community relations and integration**



# **Strategic “Tenets” to Achieve Future “Vision”**

- **Transformation:** MAGTF-TC center of excellence; capitalize on innovation, experimentation and technology; contribute to development/enhancement of EMW/joint capabilities
- **Operate and Train Safely:** successful mission accomplishment
- **Improve Quality of Life:** how/where Marines/families live; where Marines and civilians work
- **Improve Environmental Stewardship and Training Area Accessibility:** must be a consideration in everything we do
- **Operate with “Business” Efficiency:** well-executed customer-centered approach to improvement



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# INITIATIVES



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# Large Scale MOUT Feasibility Study

-or-

## “JOINT URBAN WARFARE FACILITY”



# MOUT “Analysis”

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## Status

- **Purpose: MOUT Feasibility and Siting Analysis**

- Explore feasibility of constructing a large-scale MOUT facility at MCAGCC that satisfies the UNS requirement while protecting the CAX program. Analysis screens for physical MOUT sites within MCAGCC area.

- **Options:**

- On-base, Off-base, Contiguous, Combination Option.
  - Siting Criteria Includes: 400 sq km maneuver area (20x20km)
    - Multiple Ave of Approach
    - Live fire

- **Status:**

- Analysis Deliverable: End of March 04 (Onyx/M2 Tech)
  - Contract Awarded in FY03/Cost of approx \$1.2M
  - Completion 2015 Timeframe



# Large Scale MOUT

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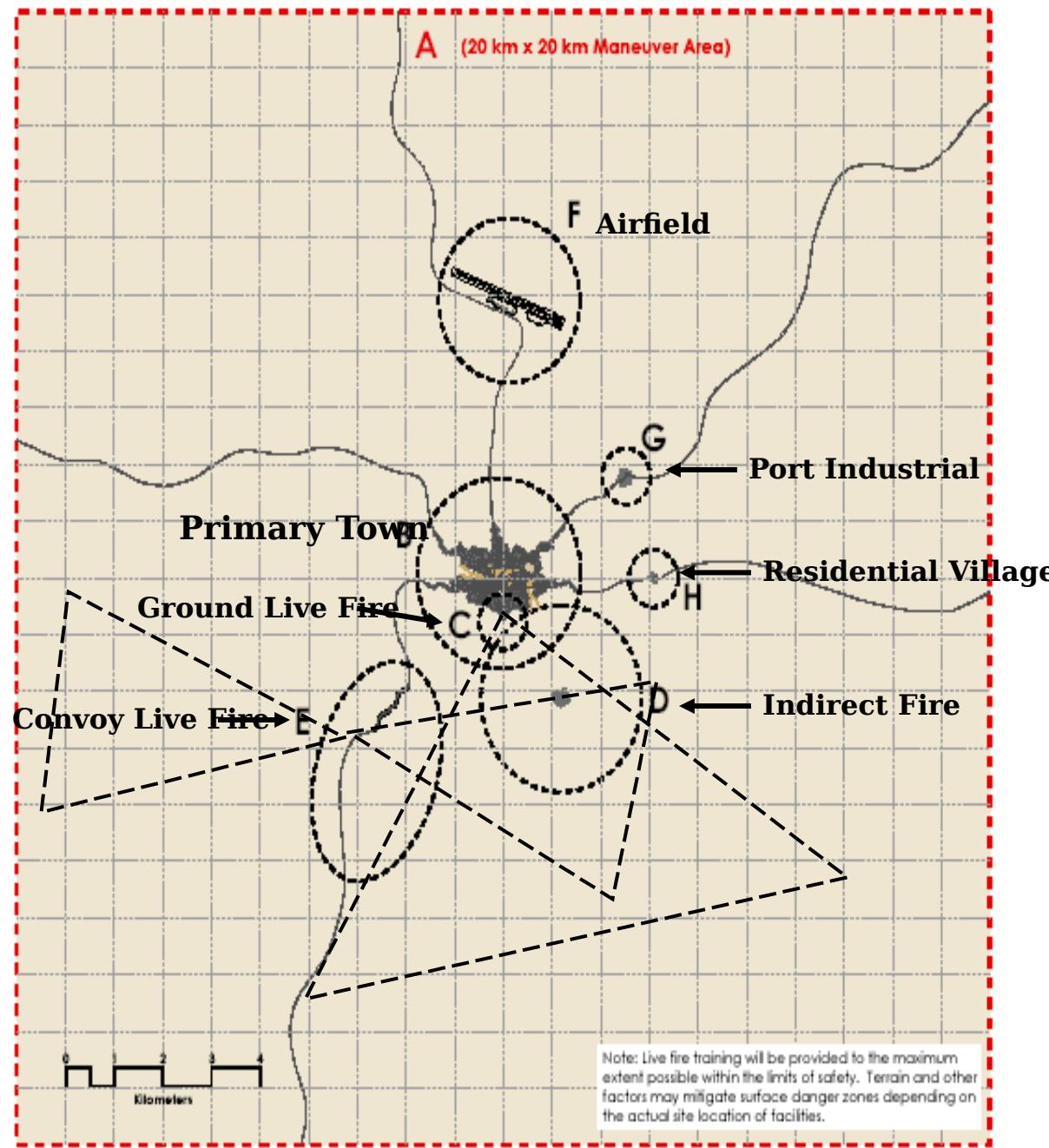
- A large-scale urban training facility that provides MAGTF forces (MEB) a comprehensive urban training environment.
  - Most likely (Will) be a Joint-use facility - JNTC
  - Replicates a modern urban environment (3 block war thru urban combat scenarios)
  - Live fire capable
  - Accommodate urban maneuver area by a Bn (+) CA team
  - Air/Land maneuver space to facilitate MAGTF shaping ops in areas surrounding urban objective (integrate urban air-ground training)
  - Replicate C2 challenges of operating in a MOUT environment
  - Incorporate technology enhancements to support instrumentation, AAR, PLI and digital links to CACCTUS



# Large Scale MOUT

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- **Components of Urban Warfare Facility:**
  - Primary Town
    - Ability for Two Battalions to operate, one isolates (3 blocks/Bn)
  - Indirect Fire Component (ARTY & CAS)
    - Container construction ("Yodaville"); 300m x 300m
  - Ground Live Fire Area
    - Ability for One Company to operate live-fire
  - Vehicle Convoy
    - Five blocks long; various bldgs; fire to both flanks
  - Outlying:
    - Airfield (non-operational)
    - Port Industrial Complex
    - Residential Village: Intact Houses with furniture

**KEY****A. Maneuver Area**

- 20 km x 20 km shaping/maneuver space for MEB force
- Multiple avenues of approach provide a variety of training scenarios
- Outlying components increase complexity of battle space

**B. Primary Town Component**

- Large enough to absorb battalion size units
- Dense urban environment of multi-story structures in generic 'third world' style
- Irregular and complex street pattern challenges communication and navigation

**C. Ground Live Fire Component**

- Several multi-story structures capable of withstanding live fire
- Provides realistic live fire training for company sized units
- Planned as a section of the Primary Town

**D. Indirect Fire Component**

- Live fire urban target environment for air and land based indirect fire training
- Close Air Support and Artillery can be directed by forces in Primary Town
- Structures to be constructed of low cost materials appropriate for live fire training

**E. Convoy Live Fire Component**

- Structures, facades, and targets arranged in intermittent density along both sides of a road
- Accommodates live fire training for an ambush of sufficient complexity on a convoy of reasonable length

**F. 'Airfield' Outlying Component**

- Control tower, hangars, and other structures represent an airfield complex (non-operational)
- Provides realistic setting likely to be encountered in actual combat

**G. 'Port/Industrial' Outlying Component**

- Warehouses and structures represent a port or warehouse district
- Supports training events related to securing industrial areas

**H. 'Residential Village' Outlying Component**

- Structures containing furniture and props enhance complexity of search and seizure operations
- Supports training with non-combatants

**Figure 4-1**  
**MOUT Maneuver Area Diagram**  
 MAGTF/TC MCAGCC Twenty-nine Palms  
 MOUT Feasibility Study





# Specified and Implied Tasks

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- **Manpower**: Coyote staff (MEB CAX/MOUT), Range Maintenance personnel
- **Comptroller**: Joint operating funds, exercise force funding (sister service)
- **C&D**: Control bandwidth, radar system/expansion of safety net ICW land expansion
- **Medical/Dental**: Expanded base population/patient load



# Specified and Implied Tasks

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- **I&L**: Facility custodian/maintenance issues, utilities, 2<sup>nd</sup> Camp Wilson, additional facilities and housing for expanded staff, MOUT, EEAP expansion, CMA capacity
- **MCCS**: Capacity at existing facilities, new 7 day store to support 2<sup>nd</sup> Camp Wilson
- **NREA**: Expansion issues, increased scope of base mission



# Specified and Implied Tasks

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- **O&T**: Safety certifications, range scheduling and deconfliction, Urban “center of excellence”
- **PMO**: Security of facility
- **RSU**: “Host” support for larger exercise forces
- **TTECG**: Controller requirements for MEB-level CAX, MOUT controllers, skill sets, certification



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# MEB Training Exercise Study



# MEB “Analysis”

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## Status

- **Purpose: Establish a facility with enough air and land live-fire and maneuver space to conduct full-scale MEB exercises.**

- Define the requirements for conducting large-scale MEB training exercises and identify the resources required to establish these exercises on a recurring basis.
- TECOM will use this study to determine the feasibility of establishing a recurring CONUS-based MEB-level exercise.

- **Tasks:**

- Task 1: Identify MEB Training Requirements
- Task 2: Determine Trng Environment Req to Spt Trng Req
- Task 3: Assess Specific Alt Ranges That Spt Trng Environment
- Task 4: Document Results, Disseminate Final Report

- **Status:**

- Deliverables: Task1 Jan, Task2 Apr, Task3 Jul, Task4 Aug (CNA)
- Contract Awarded in FY03/Cost of approx \$342K



# MEB Training Area

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- Area sufficient to allow MEB-sized exercise to simultaneously coordinate and fight the deep, close, and rear battles. [Airspace available to plan & deliver long-range operational fires.]
- Support day and night live-fire ground maneuvers that enhance a MEB's ability to conduct sustained Combined Arms operations (to include large-scale MOUT). Provide sufficient live-fire and maneuver areas for the GCE to simultaneously deploy and maneuver three battalions and conduct continuous live-fire mechanized ops over a four to five day period.
- Provide the CSSE the opportunity to conduct sustained tactical logistical operations over extended distances, while managing and fighting the rear battle.
- Provide a MEB-level TTECG. Provide after-action review capability.
- Provide capability to conduct both live-fire and OPFOR supported force-on-force training.
- Provide L-V-C capability linked with other training centers.
- This facility, connected through digital links with other training centers, must be integrated into the JNTC.

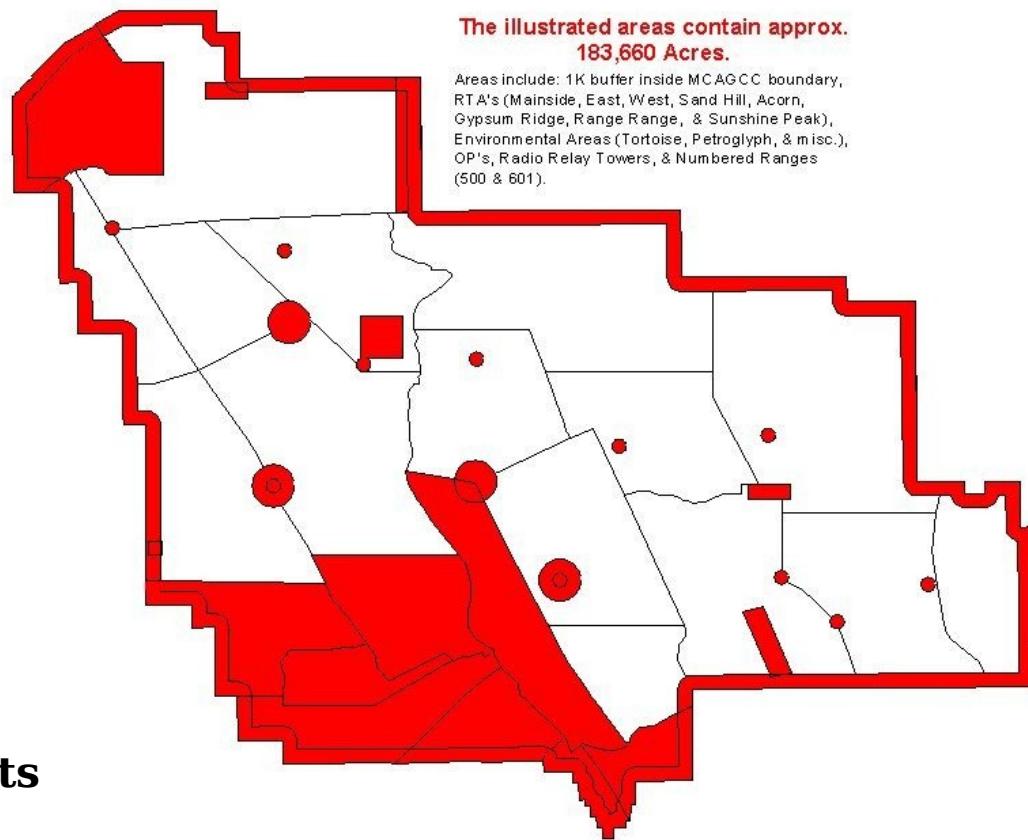


# Self Encroachment

**With additional requirements (MEB Ex, MOUT) and other encroachments (Tortoise, Sensitive Sites) ; there is a real need for additional space.**

~~The Base is not really~~  
**932 sqmi:**

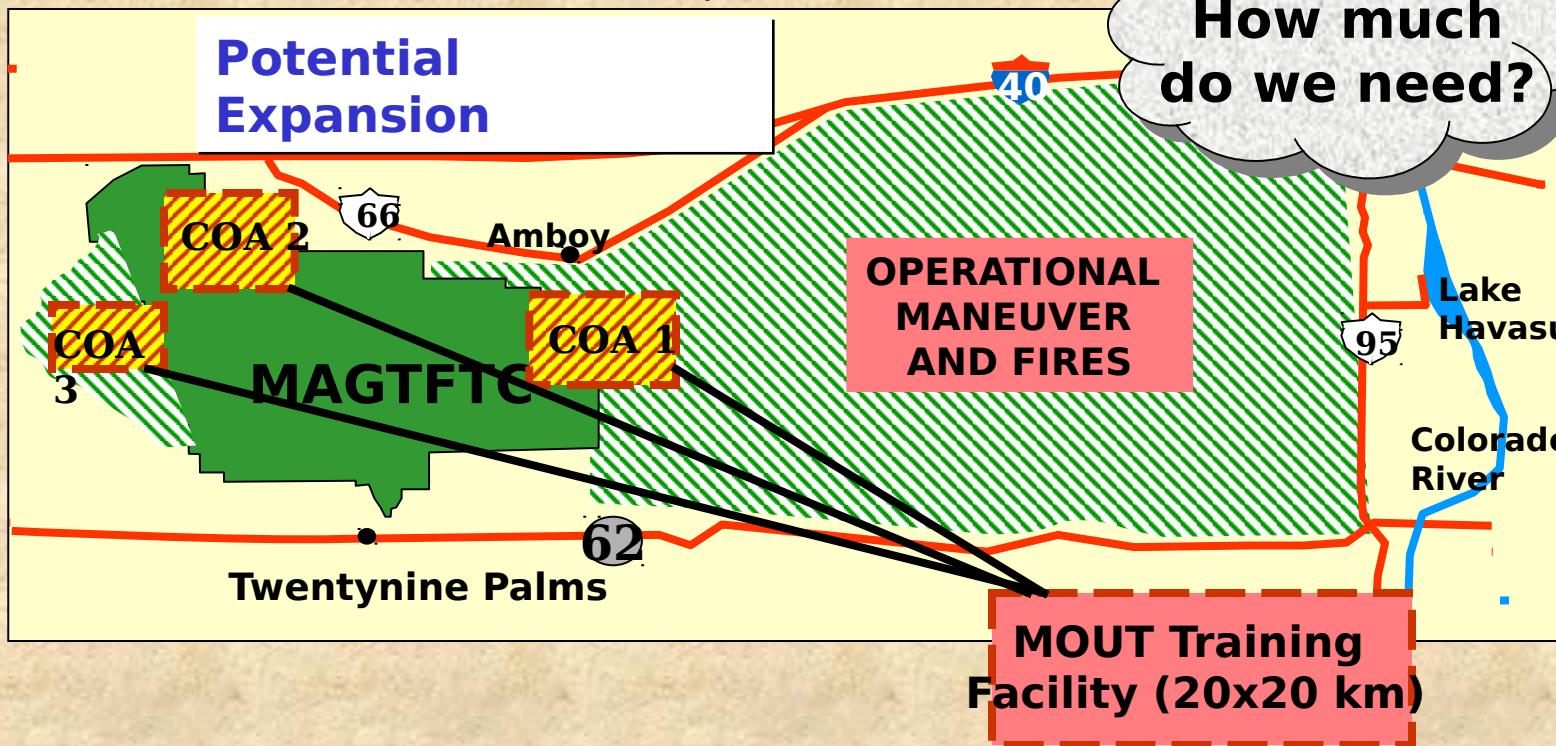
**Encroachments, Mainside, Mountains, SDZ Constraints**





# MEB Maneuver Area

- Constrained by:
  - Joshua Tree Nat'l Forest to the south
  - Private lands to the west
  - Interstate highways to the north
  - FAA Owned Airspace on all sides







# Estimated Timeline

FY04 FY05 FY06 FY10 FY11 FY13 FY15

Req Analysis

DOD

NEPA

Airspace

Land Acquisition

\$1.3 Mil

\$3-6 Mil

\$500 Mil

SecNav/Con  
g do not  
support

- Not feasible
- Better option

No OSD  
suppo  
rt

- Hostile political climate
- Excess cost to political & fiscal capital

- No political support (Cong/State)
- Excess costs

I&L/MCCDC



AVN/MCCDC



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# Future Scenario



# LAVIC LAKE SCENARIO

## “ALL ROADS LEAD TO ROME / BAGHDAD / LAVIC LAKE

- **MEB-level, Joint UCAX**

- Force List could be comprised of all Marine Forces, or augmented by Army Forces, or augmented by Virtual/Constructive Forces.
- MEB Staff afloat off Pendleton, Marine unit secures beachhead to commence STOM (LCAC, EFV, V-22) and to provide Sea-based Logistical Support
- Simulate EFV, Tank, LAR, Arty V-22, etc movement from Pendleton to 29 Palms
- Army Bn maneuvers up the Gypsum Ridge-Quak-Gays Pass to Lavic Lake Urban Facility
- Simultaneously Marine Bn maneuvers up the Delta-Lava-Blacktop-Rainbow Canyon to FINEX at the Lavic Lake Urban facility. (Still addressing CAX learning objectives)
- Seabasing is realized through Expeditionary Maneuver Warfare/SeaStrike from our Expeditionary Strike Group (MEB CE and Sea-Based Logistics remain afloat)
- Single-battle concept becomes a reality (Deep-shaping in Blacktop from Pendleton / Close-Decisive Ops during UCAX / Rear-C2, Intel, Logistics, ForceProt from ship and beach head)
- All elements of the MAGTF are exercised. Force-on-force is a possibility at CPCA & MOUT
- JNTC is effected at 29 Palms.
- The MEB staff is capable of operating as the nucleus of a JTF HQ (Cmd afloat), or as the Marine Component of a JTF (under JFCOM through C4I architecture or some other Joint HQ), or as a tactical maneuver command element under the Marine Service Component (MEF at Pendleton).
- Exercises can be: standard CAX, UCAX, MEB CAX, Joint CAX, MEBEX, etc.
- One Alternative: attacking up one corridor, roll through urban, and then attack down another corridor.



# ISSUES FOR CONSIDERATION

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**-MOOT**: Do we want it here? Will the costs outweigh the benefits?

- Will Joint/MEB Ex encroachment severely impact tenant unit training (Sq>Co)?
- Scheduling deconfliction: CAX, MEB, Tenants, Joint, Spec Ops, IOC, etc
- Will we receive primacy of use for our CAX & MEB Training Requirements
  - We bear the cost of land, maintenance, diminished training opportunities
  - Eliminate Off-Base Options? Does not tie in with CAX or MEB Training.
    - Land acquisition costs and airspace issues

**-CAX**: Does it change?

- Most likely environment is urban (UCAX)
- Still need to do Combined Arms, Mechanized Live Fire Training
  - Can do both: standard CAX approach with Urban FINEX



# Future Capabilities?

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- CONDUCT CURRENT CAX
- CONDUCT ENHANCED CAX (UCAX) Current>Future
- CONDUCT TENANT TRNG
- CONDUCT MEB-LEVEL TRNG EX
- CONDUCT TENANT MOUT TRNG
- CONDUCT MEB-LEVEL MOUT TRNG
- CONDUCT MEB-LEVEL JOINT TRNG (MOUT)
  - OPERATE IN JOINT ENVIRONMENT AS JTF COMPONENT (TACT)
  - OPERATE IN JOINT ENVIRONMENT AS A JTF HQ (OP)
  - JNTC EXERCISES
- CONDUCT OMFTS/STOM
- INTEGRATE: MSTP / CAX / MAWTS / EWTG
- VALIDATES NEED FOR LAND EXPANSION